

API-03-03-PCT-US SeqList.ST25
SEQUENCE LISTING

<110> Berinstein, Neil
Gallichan, Scott
Lovitt, Corey
Parrington, Mark
Pedyczak, Artur
Radvanyi, Laszlo
Singh-Sandhu, Devender

<120> Tumor Antigens BFA5 for Prevention and/or Treatment of Cancer

<130> API-03-03-PCT-US

<140> US 10/553,137

<141> 2004-04-15

<150> PCT/IB2004/001701

<151> 2004-04-15

<150> US 60/462,945

<151> 2003-04-15

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<170> PatentIn version 3.2

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Val Ser Gly Thr Gln Glu Gln Thr Lys Thr Leu Arg Asp Ser Pro Asn
Page 6

820

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Glu His Arg Thr Pro Leu Met Lys Ala Leu Gln Cys His Gln Glu Ala
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50

55

60

Cys Ala Asn Ile Leu Ile Asp Ser Gly Ala Asp Ile Asn Leu Val Asp
 65 70 75 80
 Val Tyr Gly Asn Met Ala Leu His Tyr Ala Val Tyr Ser Glu Ile Leu
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 Ser Val Val Ala Lys Leu Leu Ser His Gly Ala Val Ile Glu Val His
 100 105 110
 Asn Lys Ala Ser Leu Thr Pro Leu Leu Leu Ser Ile Thr Lys Arg Ser
 115 120 125
 Glu Gln Ile Val Glu Phe Leu Leu Ile Lys Asn Ala Asn Ala Asn Ala
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 Val Asn Lys Tyr Lys Cys Thr Ala Leu Met Leu Ala Val Cys His Gly
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 Ser Ser Glu Ile Val Gly Met Leu Leu Gln Gln Asn Val Asp Val Phe
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 Ala Ala Asp Ile Cys Gly Val Thr Ala Glu His Tyr Ala Val Thr Cys
 180 185 190
 Gly Phe His His Ile His Glu Gln Ile Met Glu Tyr Ile Arg Lys Leu
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 Ser Lys Asn His Gln Asn Thr Asn Pro Glu Gly Thr Ser Ala Gly Thr
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 Pro Asp Glu Ala Ala Pro Leu Ala Glu Arg Thr Pro Asp Thr Ala Glu
 225 230 235 240
 Ser Leu Val Glu Lys Thr Pro Asp Glu Ala Ala Pro Leu Val Glu Arg
 245 250 255
 Thr Pro Asp Thr Ala Glu Ser Leu Val Glu Lys Thr Pro Asp Glu Ala
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Ala Ala Lys Gly Arg Pro Arg Lys Ile Ala Trp Glu Lys Lys Glu Thr
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Pro Val Lys Thr Gly Cys Val Ala Arg Val Thr Ser Asn Lys Thr Lys
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Val Leu Glu Lys Gly Arg Ser Lys Met Ile Ala Cys Pro Thr Lys Glu
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Trp Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr
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Glu Glu Asn Ser Trp Asp Thr Glu Ser Leu Cys Glu Thr Val Ser Gln
625 630 635 640

Lys Asp Val Cys Leu Pro Lys Ala Ala His Gln Lys Glu Ile Asp Lys
645 650 655

Ile Asn Gly Lys Leu Glu Gly Ser Pro Val Lys Asp Gly Leu Leu Lys
660 665 670

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675 680 685

Met Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Glu Lys Pro Ser Ala
690 695 700

Phe Glu Pro Ala Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu
705 710 715 720

Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Glu Ile Leu Pro Ser
725 730 735

Glu Ser Lys Gln Lys Asp Tyr Glu Glu Ser Ser Trp Asp Ser Glu Ser
740 745 750

Leu Cys Glu Thr Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Thr
755 760 765

His Gln Lys Glu Ile Asp Lys Ile Asn Gly Lys Leu Glu Glu Ser Pro
770 775 780

Asp Asn Asp Gly Phe Leu Lys Ala Pro Cys Arg Met Lys Val Ser Ile
785 790 795 800

Pro Thr Lys Ala Leu Glu Leu Met Asp Met Gln Thr Phe Lys Ala Glu
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Ala Asp Gln Met Phe Pro Ser Glu Ser Lys Gln Lys Lys Val Glu Glu
850 855 860

Asn Ser Trp Asp Ser Glu Ser Leu Arg Glu Thr Val Ser Gln Lys Asp
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Val Cys Val Pro Lys Ala Thr His Gln Lys Glu Met Asp Lys Ile Ser
885 890 895

Gly Lys Leu Glu Asp Ser Thr Ser Leu Ser Lys Ile Leu Asp Thr Val
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His Ser Cys Glu Arg Ala Arg Glu Leu Gln Lys Asp His Cys Glu Gln
915 920 925

Arg Thr Gly Lys Met Glu Gln Met Lys Lys Lys Phe Cys Val Leu Lys
930 935 940

Lys Lys Leu Ser Glu Ala Lys Glu Ile Lys Ser Gln Leu Glu Asn Gln
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Lys Val Lys Trp Glu Gln Glu Leu Cys Ser Val Arg Leu Thr Leu Asn
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Gln Glu Glu Glu Lys Arg Arg Asn Ala Asp Ile Leu Asn Glu Lys Ile
980 985 990

Arg Glu Glu Leu Gly Arg Ile Glu Glu Gln His Arg Lys Glu Leu Glu
995 1000 1005

Val Lys Gln Gln Leu Glu Gln Ala Leu Arg Ile Gln Asp Ile Glu
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Leu Lys Ser Val Glu Ser Asn Leu Asn Gln Val Ser His Thr His
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Glu Asn Glu Asn Tyr Leu Leu His Glu Asn Cys Met Leu Lys Lys
1040 1045 1050

Glu Ile Ala Met Leu Lys Leu Glu Ile Ala Thr Leu Lys His Gln

| | | | | | | | | | | | | |
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| Lys | Glu | Lys | Asn | Ala | Glu | Leu | Gln | Met | Thr | Leu | Lys | Leu Lys Glu |
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| Glu | Ser | Leu | Thr | Lys | Arg | Ala | Ser | Gln | Tyr | Ser | Gly | Gln Leu Lys |
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| Val | Leu | Ile | Ala | Glu | Asn | Thr | Met | Leu | Thr | Ser | Lys | Leu Lys Glu |
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| Lys | Gln | Asp | Lys | Glu | Ile | Leu | Glu | Ala | Glu | Ile | Glu | Ser His His |
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| Pro | Arg | Leu | Ala | Ser | Ala | Val | Gln | Asp | His | Asp | Gln | Ile Val Thr |
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| Asn | Asn | Glu | Val | Leu | His | Gln | Pro | Leu | Ser | Glu | Ala | Gln Arg Lys |
| 1190 | | | | | | 1195 | | | | | 1200 | |
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| Glu | Thr | Gln | Cys | Gln | Met | Lys | Glu | Ala | Glu | His | Met | Tyr Gln Asn |
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| Glu | Gln | Asp | Asn | Val | Asn | Lys | His | Thr | Glu | Gln | Gln | Glu Ser Leu |
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Glu Ile Phe Asn Tyr Asn Asn His Leu
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Ile Leu Lys Glu Lys Asn Ala Glu Leu
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Gln Leu Val His Ala His Lys Lys Ala
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Asn Ile Gln Asp Ala Gln Lys Arg Thr
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Asn Leu Val Asp Val Tyr Gly Asn Met
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Lys Cys Thr Ala Leu Met Leu Ala Val

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Lys Ile Gln Cys Leu Glu Lys Ala Thr
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Lys Ile Ala Trp Glu Lys Lys Glu Thr
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Val Lys Thr Gly Cys Val Ala Arg Val
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Ala Leu His Tyr Ala Val Tyr Ser Glu
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Gln Met Lys Lys Lys Phe Cys Val Leu
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Ala Leu Gln Cys His Gln Glu Ala Cys
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Ser Glu Gln Ile Val Glu Phe Leu Leu
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Ala Val Ile Glu Val His Asn Lys Ala
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Ala Val Thr Cys Gly Phe His His Ile
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Ala Cys Leu Gln Arg Lys Met Asn Val
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Ser Leu Val Glu Gly Thr Ser Asp Lys
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Lys Arg Thr Ala Leu His Trp
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Thr Ser Glu Lys Phe Thr Trp Pro Ala Lys Gly Arg Pro Arg Lys Ile
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Ala Trp Glu Lys Lys Glu Asp
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Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln Lys Asp Tyr Glu Glu Asn
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Ser Trp Asp Thr Glu Ser Leu
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Arg Leu Thr Leu Asn Gln Glu Glu Glu Lys Arg Arg Asn Ala Asp Ile
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Leu Asn Glu Lys Ile Arg Glu
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Ala Glu Asn Thr Met Leu Thr Ser Lys Leu Lys Glu Lys Gln Asp Lys
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Glu Ile Leu Glu Ala Glu Ile
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<400> 104

Asn Tyr Asn Asn His Leu Lys Asn Arg Ile Tyr Gln Tyr Glu Lys Glu
 1 5 10 15

Lys Ala Glu Thr Glu Asn Ser
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<400> 105

Ser Arg Arg His His Cys Arg Ser Lys Ala Lys Arg Ser Arg His His